Testing Machine design

Validation…

Use – cases

Priorities - validity and how does it reflect?

1.We define reliability as the ability of the machine to correctly sort all the inputted disks.

We validate the reliability of the machine by checking the correctness of the code running the machine and also by conducting long-term test (copy paste)

In consequence, reliability is reflected in the upcoming software code and on the hard ware side, if the solutions doesn’t not satisfy the \*requirements it will fail to be reliable.

Why? Because the goal of the project cannot be met with an unreliable design.

2.The speed of the machine is defined by the number of disks sorted in a unit of time. We search to select the design solution that improve this number(higher the number, the better).

Why? Speed is essential to offer a pleasant experience operating the machine, also speed is the first thing that stands out when two machines of this sort are compared.

3.We define robustness as the fact that the machine does not brake easily. If the machines state wouldn’t be changed (wouldn’t brake) during : build phase, test phases, simulations, transportation and the end process, all during the period of the project cycle then we consider the machine to be robust.

Why? We do not met our project goal if the machine isn’t capable of running during the final process.